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TRANSMITTAL FORM

I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail" under Label No. EL886594699 US in an envelope addressed to: Box Patent Application, Assistant Commissioner for Patents Washington, D.C. 20231 on:

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J10111US838391
12/31/01

Box Patent Application
Assistant Commissioner
For Patents
Washington, D.C. 20231

Attorney Doc. #: 67,200-412
Mailing Date: 12/31/01

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): CHUAN-YU WU, CHRIS HUANG AND JI-MING YANG

For: APPARATUS AND METHOD FOR DYNAMIC MEMORY REFRESHING

Submitted herewith are:

5 sheets of formal drawings showing Figs 1-5
 An Assignment of the invention to Taiwan Semiconductor Manufacturing Co., Ltd., together with Assignment Recordal Sheet
 A Declaration for patent application under CFR 1.63 and 1.68

The filing fee has been calculated as shown below:

	No. Filed	No. Extra	Small Entity Fee	Large Entity Fee	Total
Basic Fee			\$370.00	\$740.00	\$740.00
Total Claims	29 x20	9x	\$9.00	\$18.00	\$162.00
Indep. Claims	-3	x	\$42.00	\$84.00	\$0
Multiple Dep. Clms.			\$140.00	\$280.00	\$0
Assign. Rec. Fee			\$40.00	\$40.00	\$40.00
TOTAL					\$942.00

Mailing Date: 12/31/01
Attorney Docket No.: 67,200-412

Attached is a Credit Card Payment Form for the sum of \$ 942.00

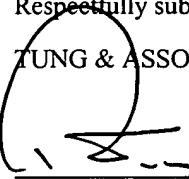
Charge Visa Credit Card No. 4756 8461 9568 0263 the sum of \$ 942.00
A duplicate copy of this transmittal is attached.

The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Visa Credit Card No. 4756 8461 9568 0263.
A duplicate copy of this sheet is enclosed.

Any additional filing fees required under 37 CFR 1.6
 Any patent application processing fees under 37 CFR 1.17

Respectfully submitted,

TUNG & ASSOCIATES



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RWT/kd
Enclosures